

NOVEMBER/DECEMBER 2023


**CABC32/FABC32 — MICROBIOLOGY – I**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL the questions.

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1. Define Microbiology.
  2. Outline phase contrast microscopy.
  3. What is prokaryotic cell?
  4. Illustrate Capsule Stain.
  5. Define Bacterial Genome.
  6. Classify Microbes.
  7. What is Anaerobic Culture?
  8. Explain Media preparation.
  9. Define Antimicrobial Resistance.
  10. Summarize Chlorella.



SECTION B — ( $5 \times 5 = 25$  marks)

Answer ALL the questions.

11. (a) Develop the history of microbiology.  
Or  
(b) Analyse the contribution of Anton Van Leeuwenhoek.
12. (a) Construct the function of Cell Organelles.  
Or  
(b) Simplify Hanging drop technique.
13. (a) Organize Binomial Nomenclature of microbes.  
Or  
(b) Simplify Plasmids and their Significance.
14. (a) Make use of measurement of Microbial growth.  
Or  
(b) Examine the methods of sterilization.
15. (a) Apply the General Characteristics of Microbes.  
Or  
(b) Analyse about Rabies Virus.

SECTION C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Explain the Components of Fluorescence microscopy.
17. Evaluate the anatomy the Eukaryotic cells.
18. Determine the classical techniques of microbial identification.
19. Discuss the pure culture technique.
20. Elaborate the antimicrobial agents test.